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S/N: TBA

Docket No.: SUG-185-PCT

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

- 1. (original) A light emitting device having formed therein a light emitting layer section based on a double heterostructure in which a p-type cladding layer, an active layer and an n-type cladding layer, individually composed of a $Mg_aZn_{1-a}O$ ($0\le a\le 1$) type oxide, are stacked in this order, the device using a face on the n-type cladding layer side as a light extraction surface, and having, as being provided on the main surface on the light extraction surface side of the n-type cladding layer, an n-type low resistivity layer composed of a $Mg_aZn_{1-a}O$ ($0\le a\le 1$) type oxide, and having a content of an n-type dopant larger than that in the n-type cladding layer.
- 2. (original) The light emitting device as claimed in Claim 1, having a metal bonding pad provided so as to cover a part of the main surface of the n-type low resistivity layer.
- 3. (currently amended) The light emitting device as claimed in Claim 1 or 2, wherein the n-type low resistivity layer has an effective carrier concentration of 1×10^{17} /cm³ to 1×10^{20} /cm³, both ends inclusive.

- 4. (original) The light emitting device as claimed in Claim 3, wherein the n-type low resistivity layer has an n-type dopant concentration of 1×10¹⁷/cm³ to 1×10²⁰/cm³, both ends inclusive.
- 5. (currently amended) The light emitting device as claimed in any one of Claims

 Claim 1 to 4, wherein the n-type low resistivity layer contains, as the n-type dopant, one of or more of B, Al, Ga and In.
- 6. (currently amended) The light emitting device as claimed in any one of Claims

 Claim 1 to 5, wherein the n-type low resistivity layer is grown as a Mg_aZn_{1-a}O-type oxide layer by MOVPE process, while incorporating therein the n-type impurity in the growth step.
- 7. (currently amended) The light emitting device as claimed in any one of Claims Claim 1 to 5, wherein the n-type low resistivity layer is obtained by initially being grown in vapor phase in a form of a Mg_aZn_{1-a}O-type oxide layer having an n-type dopant concentration lower than the final n-type dopant concentration, and then by allowing the n-type dopant to additionally diffuse therein from the main surface of the layer.
- 8. (currently amended) The method of fabricating a light emitting device as claimed in any one of Claims Claim 1 to 7, wherein, in the process of formation of the light emitting layer section having a double heterostructure by growing, in vapor phase,

the p-type cladding layer, the active layer and the n-type cladding layer, individually composed of a $Mg_aZn_{1-a}O$ ($0\le a\le 1$) type oxide, sequentially in this order, the device after formation of the p-type cladding layer is annealed in an oxidative gas atmosphere, and the active layer and the n-type cladding layer are then grown in vapor phase.

- 9. (new) The light emitting device as claimed in Claim 2, wherein the n-type low resistivity layer has an effective carrier concentration of 1×10¹⁷/cm³ to 1×10²⁰/cm³, both ends inclusive.
- 10. (new) The light emitting device as claimed in Claim 9, wherein the n-type low resistivity layer has an n-type dopant concentration of 1×10¹⁷/cm³ to 1×10²⁰/cm³, both ends inclusive.
- 11. (new) The light emitting device as claimed in Claim 2, wherein the n-type low resistivity layer contains, as the n-type dopant, one or more of B, Al, Ga and In.
- 12. (new) The light emitting device as claimed in Claim 2, wherein the n-type low resistivity layer is grown as a Mg_aZn_{1-a}O-type oxide layer by MOVPE process, while incorporating therein the n-type impurity in the growth step.
- 13. (new) The light emitting device as claimed in Claim 2, wherein the n-type low resistivity layer is obtained by initially being grown in vapor phase in a form of a

 $Mg_aZn_{1-a}O$ -type oxide layer having an n-type dopant concentration lower than the final n-type dopant concentration, and then by allowing the n-type dopant to additionally diffuse therein from the main surface of the layer.

- 14. (new) The light emitting device as claimed in Claim 3, wherein the n-type low resistivity layer is obtained by initially being grown in vapor phase in a form of a Mg_aZn_{1-a}O-type oxide layer having an n-type dopant concentration lower than the final n-type dopant concentration, and then by allowing the n-type dopant to additionally diffuse therein from the main surface of the layer.
- 15. (new) The light emitting device as claimed in Claim9, wherein the n-type low resistivity layer is obtained by initially being grown in vapor phase in a form of a Mg_aZn_{1-a}O-type oxide layer having an n-type dopant concentration lower than the final n-type dopant concentration, and then by allowing the n-type dopant to additionally diffuse therein from the main surface of the layer.
- 16. (new) The method of fabricating a light emitting device as claimed in Claim 2, wherein, in the process of formation of the light emitting layer section having a double heterostructure by growing, in vapor phase, the p-type cladding layer, the active layer and the n-type cladding layer, individually composed of a $Mg_aZn_{1-a}O$ ($0 \le a \le 1$) type oxide, sequentially in this order, the device after formation of the p-type cladding layer is annealed in an oxidative gas atmosphere, and the active layer and the n-type cladding

layer are then grown in vapor phase.

- 17. (new) The method of fabricating a light emitting device as claimed in Claim 3, wherein, in the process of formation of the light emitting layer section having a double heterostructure by growing, in vapor phase, the p-type cladding layer, the active layer and the n-type cladding layer, individually composed of a $Mg_aZn_{1-a}O$ ($0\le a\le 1$) type oxide, sequentially in this order, the device after formation of the p-type cladding layer is annealed in an oxidative gas atmosphere, and the active layer and the n-type cladding layer are then grown in vapor phase.
- 18. (new) The method of fabricating a light emitting device as claimed in Claim 9, wherein, in the process of formation of the light emitting layer section having a double heterostructure by growing, in vapor phase, the p-type cladding layer, the active layer and the n-type cladding layer, individually composed of a Mg_aZn_{1-a}O (0≤a≤1) type oxide, sequentially in this order, the device after formation of the p-type cladding layer is annealed in an oxidative gas atmosphere, and the active layer and the n-type cladding layer are then grown in vapor phase.
- 19. (new) The method of fabricating a light emitting device as claimed in Claim 4, wherein, in the process of formation of the light emitting layer section having a double heterostructure by growing, in vapor phase, the p-type cladding layer, the active layer and the n-type cladding layer, individually composed of a $Mg_aZn_{1-a}O$ ($0 \le a \le 1$) type oxide,

sequentially in this order, the device after formation of the p-type cladding layer is annealed in an oxidative gas atmosphere, and the active layer and the n-type cladding layer are then grown in vapor phase.

- 20. (new) The method of fabricating a light emitting device as claimed in Claim 10, wherein, in the process of formation of the light emitting layer section having a double heterostructure by growing, in vapor phase, the p-type cladding layer, the active layer and the n-type cladding layer, individually composed of a $Mg_aZn_{1-a}O$ ($0\le a\le 1$) type oxide, sequentially in this order, the device after formation of the p-type cladding layer is annealed in an oxidative gas atmosphere, and the active layer and the n-type cladding layer are then grown in vapor phase.
- 21. (new) The method of fabricating a light emitting device as claimed in Claim 5, wherein, in the process of formation of the light emitting layer section having a double heterostructure by growing, in vapor phase, the p-type cladding layer, the active layer and the n-type cladding layer, individually composed of a $Mg_aZn_{1-a}O$ ($0\le a\le 1$) type oxide, sequentially in this order, the device after formation of the p-type cladding layer is annealed in an oxidative gas atmosphere, and the active layer and the n-type cladding layer are then grown in vapor phase.
- 22. (new) The method of fabricating a light emitting device as claimed in Claim 11, wherein, in the process of formation of the light emitting layer section having a double

layer are then grown in vapor phase.

heterostructure by growing, in vapor phase, the p-type cladding layer, the active layer and the n-type cladding layer, individually composed of a $Mg_aZn_{1-a}O$ ($0\le a\le 1$) type oxide, sequentially in this order, the device after formation of the p-type cladding layer is annealed in an oxidative gas atmosphere, and the active layer and the n-type cladding

23. (new) The method of fabricating a light emitting device as claimed in Claim 6, wherein, in the process of formation of the light emitting layer section having a double heterostructure by growing, in vapor phase, the p-type cladding layer, the active layer and the n-type cladding layer, individually composed of a $Mg_aZn_{1-a}O$ ($0\le a\le 1$) type oxide, sequentially in this order, the device after formation of the p-type cladding layer is annealed in an oxidative gas atmosphere, and the active layer and the n-type cladding layer are then grown in vapor phase.

24. (new) The method of fabricating a light emitting device as claimed in Claim 12, wherein, in the process of formation of the light emitting layer section having a double heterostructure by growing, in vapor phase, the p-type cladding layer, the active layer and the n-type cladding layer, individually composed of a $Mg_aZn_{1-a}O$ ($0\le a\le 1$) type oxide, sequentially in this order, the device after formation of the p-type cladding layer is annealed in an oxidative gas atmosphere, and the active layer and the n-type cladding layer are then grown in vapor phase.

25. (new) The method of fabricating a light emitting device as claimed in Claim 7, wherein, in the process of formation of the light emitting layer section having a double heterostructure by growing, in vapor phase, the p-type cladding layer, the active layer and the n-type cladding layer, individually composed of a $Mg_aZn_{1-a}O$ ($0\le a\le 1$) type oxide, sequentially in this order, the device after formation of the p-type cladding layer is annealed in an oxidative gas atmosphere, and the active layer and the n-type cladding layer are then grown in vapor phase.

26. (new) The method of fabricating a light emitting device as claimed in Claim 13, wherein, in the process of formation of the light emitting layer section having a double heterostructure by growing, in vapor phase, the p-type cladding layer, the active layer and the n-type cladding layer, individually composed of a Mg_aZn_{1-a}O (0≤a≤1) type oxide, sequentially in this order, the device after formation of the p-type cladding layer is annealed in an oxidative gas atmosphere, and the active layer and the n-type cladding layer are then grown in vapor phase.

27. (new) The method of fabricating a light emitting device as claimed in Claim 14, wherein, in the process of formation of the light emitting layer section having a double heterostructure by growing, in vapor phase, the p-type cladding layer, the active layer and the n-type cladding layer, individually composed of a Mg_aZn_{1-a}O (0≤a≤1) type oxide, sequentially in this order, the device after formation of the p-type cladding layer is annealed in an oxidative gas atmosphere, and the active layer and the n-type cladding

layer are then grown in vapor phase.

28. (new) The method of fabricating a light emitting device as claimed in Claim 15, wherein, in the process of formation of the light emitting layer section having a double heterostructure by growing, in vapor phase, the p-type cladding layer, the active layer and the n-type cladding layer, individually composed of a $Mg_aZn_{1-a}O$ ($0\le a\le 1$) type oxide, sequentially in this order, the device after formation of the p-type cladding layer is annealed in an oxidative gas atmosphere, and the active layer and the n-type cladding layer are then grown in vapor phase.